

AMENDMENTS TO THE SPECIFICATION:

Please delete the heading beginning at page 1, line 5, which starts with:

BACKGROUND OF THE...

Please amend the paragraph beginning at page 1, line 9, as follows:

The present invention relates to the field of transmit antenna diversity and ~~in particular~~ provide to a method of estimating channel coefficients in a multi carrier transmit diversity system. The ~~invention also relates to an estimating stage for performing channel estimation operations and to a transceiver of a wireless communications system comprising such an estimating stage.~~

Please amend the heading beginning at page 1, line 16, as follows:

Discussion of the Prior Art~~Background~~

Please amend the heading beginning at page 3, line 20, as follows:

~~BRIEF DESCRIPTION OF THE INVENTION~~ SUMMARY

Please delete the paragraph beginning at page 8, line 9, which starts with:

Further advantages of the invention...

Please amend the heading beginning at page 9, line 17, as follows:

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Please amend the paragraph beginning at page 20, line 12, as follows:

In order to both minimize intersymbol interference and improve channel estimation, the receiver stage 40 depicted in Fig. 11 is proposed. The improved receiver stage 40 comprises an estimating stage 60 according to a first example ~~embodiment of the invention~~ with a phase ramp estimation unit 48, a phase ramp removal unit 50, a channel estimating unit 44, and a phase ramp introduction unit 52. In a signal path behind the timing synchronization unit 42 a node 54 is arranged for splitting a common signal path 55 into a channel estimating branch 56 and a demodulation branch 58. As can be seen from Fig. 11, the channel estimating unit 44 is arranged in the channel estimating branch 56.

Please amend the paragraph beginning at page 21, line 36, as follows:

In Fig. 12, a receiver stage 40 comprising an estimating stage 60 according to a second example ~~embodiment of the invention~~ is shown. The estimating stage 60 comprises a phase ramp estimation unit 48, a phase ramp removal unit 50 and a channel estimating unit 44. The phase ramp removal unit 50 is arranged in a common signal path 55 behind a timing synchronization unit 52 and prior to a node 54. The node 54 serves for splitting the common signal path 55 into a channel estimating branch 56 and a demodulation branch 58.

Please amend the paragraph beginning at page 23, line 15, as follows:

The ~~basic concept underlying the invention~~ technology described above can be extended to transmit diversity systems comprising more than two transmit antennas. ~~A possible further~~ Another example ~~embodiment of the invention~~ is based on a transmit diversity system

comprising three transmit antennas and operating in accordance with a block-coding scheme using the code matrix shown in equation (4).